



Tecumseh

Performance Data Sheet

AE2420Z-AA1B

General Information

Model	AE2420Z-AA1B	Refrigerant	R-404A
Test Condition	EN12900 ASERCOM	Performance Test Voltage	115V ~ 60HZ
Return Gas	20°C (68°F) RETURN GAS	Motor Type	CSIR

Performance Information

Evap Temp (°C)	Condensing Temperature (°C)				
		30	40	50	60
-40	Watts (Capacity)	272	210	149	91.0
	Watts (Power)	259	255	241	218
	Amps	4.35	4.25	4.14	4.01
-35	Watts (Capacity)	371	300	227	156
	Watts (Power)	304	308	303	290
	Amps	4.54	4.51	4.46	4.39
-30	Watts (Capacity)	489	404	316	228
	Watts (Power)	349	360	364	360
	Amps	4.77	4.81	4.82	4.82
-25	Watts (Capacity)	628	526	420	311
	Watts (Power)	395	412	424	431
	Amps	5.05	5.15	5.23	5.29
-23.3	Watts (Capacity)	680	572	458	342
	Watts (Power)	410	430	445	454
	Amps	5.16	5.28	5.38	5.46
-20	Watts (Capacity)	789	667	539	406
	Watts (Power)	442	466	486	501
	Amps	5.38	5.54	5.68	5.81
-15	Watts (Capacity)	976	830	676	516
	Watts (Power)	493	523	550	573
	Amps	5.74	5.97	6.18	6.36
-10	Watts (Capacity)	1190	1020	833	642
	Watts (Power)	547	583	616	648
	Amps	6.16	6.45	6.72	6.97

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2324.885	551.6314	5.72978	
C2	78.12235	12.96955	0.0653775	
C3	-17.52767	3.667766	0.0488702	
C4	0.8896456	0.1714988	0.000867384	
C5	-0.6059162	-0.01110298	0.00127758	
C6	-0.1108917	0.01480513	-0.000100554	
C7	0.002914482	0.00137835	0	
C8	-0.007054299	-0.0009601846	0	
C9	-0.001719964	0.001343568	0	
C10	0.0003716564	-0.00007226692	0	

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature